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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/684,529	10/06/2000	John D. Logue	X-735 US	1502	
24309 75	590 01/02/2004	EXAMINER			
XILINX, INC	DEPARTMENT	ZHENG, EVA,Y,			
2100 LOGIC D		ART UNIT	PAPER NUMBER		
SAN JOSE, CA	A 95124	2634			
			DATE MAILED: 01/02/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Ap	plication No.	Applicant(s)				
Office Action Summary		09	0/684,529		LOGUE ET AL.			
		Ex	aminer		Art Unit			
			a Yi Zheng		2634			
Period fo	The MAILING DATE of this communicati or Reply	on appears	on the cover sheet	with the c	orrespondence ac	ldress		
THE N - Exter after - If the - If NO - Failui - Any r	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICAT issions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) day period for reply is specified above, the maximum statutor reto reply within the set or extended period for reply will, be eply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	CFR 1.136(a). tion. rs, a reply withing period will appropriately by statute, caus	In no event, however, may n the statutory minimum of to oly and will expire SIX (6) Mile the application to become	a reply be tim hirty (30) days ONTHS from ABANDONEI	ely filed s will be considered time the mailing date of this considered to the considered time.	ly. communication.		
1)🖾	Responsive to communication(s) filed or	n <u>06 Octob</u>	<u>er 2000</u> .					
2a)	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
3)□								
Disposition of Claims								
4)⊠ Claim(s) <u>1-22</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠	5)⊠ Claim(s) <u>19-22</u> is/are allowed.							
6)⊠.	6)⊠. Claim(s) 1,2,4 and 5 is/are rejected.							
7)⊠	Claim(s) 3 and 6-18 is/are objected to.			,				
8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers							
9)[	The specification is objected to by the Ex	aminer.						
10) The drawing(s) filed on $10/6/00$ is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection		•		` ,			
	Replacement drawing sheet(s) including the					• •		
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. §§ 119 and 120								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> <li>13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.</li> <li>37 CFR 1.78.</li> <li>a) The translation of the foreign language provisional application has been received.</li> <li>14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.</li> <li>37 CFR 1.78.</li> </ul>								
reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.								
Attachmen								
2) X Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO-1449) Paper				(PTO-413) Paper No( atent Application (PT0			

#### **DETAILED ACTION**

### Drawings

1. The drawing is objected because:

Figure 6 should be designated by a legend such as --Prior Art--because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

### Claim Objections

Claims 6 and 11 are objected to because of the following informalities:

Regarding claims 6 and 11, the phrase "substantially equal to" should be changed to --equal to--.

Appropriate correction is required.

# Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors

Protection Act of 1999 (AIPA) and the Intellectual Property and High

Technology Technical Amendments Act of 2002 do not apply when the

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reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- 4. Claims 1, 2, 4 and 5 are rejected under 35 U.S.C. 102(e) as being unpatentable by Hassoun (US 6,487,648 B1).
- a) Regarding claim 1, as shown in Figure 4, Hassoun discloses a digital clock manager having a reference input terminal (REF\_CLK), a skew input terminal (CLK\_FB), an output terminal (O\_CLK), and a frequency adjusted output terminal (CLK\_J), the digital clock manager comprising:

a delay lock loop (DLL) (304B) coupled to the reference input terminal, the skew input terminal, and the output terminal; and

a digital frequency synthesizer (304A), coupled to the delay lock loop and the frequency adjusted output terminal.

- b) Regarding claim 2, the delay lock loop is configured to generate an output clock signal on the output terminal, which synchronizes a reference clock signal on the reference input terminal with a skewed clock signal on the skew input terminal. (Col 10, L5-13; Fig. 5)
- d) Regarding claim 4, the delay lock loop (304B in Fig. 4) comprises a DLL output circuit (510 in Fig 5) having a DLL output delay (D-CLK in Fig. 5).

e) Regarding claim 5, the digital frequency synthesizer (304A in Fig.
4) comprises a DFS output circuit (510 in Fig 5) having a DFS output delay (D-CLK in Fig. 5).

## Allowable Subject Matter

- 5. Claims 3, 6-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Claims 19-22 are allowed.
- 7. The following is an examiner's statement of reasons for allowance:

None of the prior art teaches or discloses the subject matter of an output clock signal has being synchronized with a frequency adjusted clock signal during a concurrence. Claims 20-22 are allowable because they are dependent upon claim 19.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eva Yi Zheng whose telephone number is 703-305-8699. The examiner can normally be reached on 7:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 703-305-4714. The fax phone number for the organization where this application or proceeding is assigned is 703-879-9306.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Eva Yi Zheng Examiner Art Unit 2634

December 17, 2003

Shumang Liu Primary examiner

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